



Implementing a Lakehouse with Microsoft Fabric (DP-601)

Description

Develop your expertise in data engineering with our training course “**Implementing a Lakehouse with Microsoft Fabric (DP-601)**”, specially designed to introduce you to **Lakehouse strategies** and optimal utilization of **Apache Spark** for large-scale data processing. By immersing yourself in our program, you will master crucial techniques for data management, orchestration, and versioning using **Delta Lake** tables, essential for ensuring the reliability and efficiency of your projects.

Through a balanced approach between theory and practice, this “Implementing a Lakehouse with Microsoft Fabric (DP-601)” course will equip you with the necessary skills to navigate seamlessly within the Microsoft Fabric ecosystem, leveraging **Dataflows Gen2** and **Data Factory** pipelines for unprecedented data ingestion and management.

Reference

DP-601

Course Content

Module 1 - Introduction to End-to-End Analysis with Microsoft Fabric

- Explore end-to-end analysis with Microsoft Fabric
- Data Teams and Microsoft Fabric
- Activate and Utilize Microsoft Fabric

Module 2 - Getting Started with Lakehouses in Microsoft Fabric

- Explore Microsoft Fabric Lakehouse
- Working with Microsoft Fabric Lakehouses
- Explore and Transform Data within a Lakehouse

Module 3 - Working with Apache Spark in Microsoft Fabric

- Prepare to Use Apache Spark
- Run Spark Code
- Work with Data in a Spark DataFrame
- Work with Data Using Spark SQL
- Visualize Data in a Spark Notebook

Module 4 - Working with Delta Lake Tables in Microsoft Fabric

- Understand Delta Lake
- Create Delta Tables
- Work with Delta Tables in Spark
- Use Delta Tables with Streaming Data

Module 5 - Data Ingestion with Dataflows Gen2 in Microsoft Fabric

- Understand Dataflows (Gen2) in Microsoft Fabric
- Explore Dataflows (Gen2) in Microsoft Fabric
- Integrate Dataflows (Gen2) and Pipelines in Microsoft Fabric

Module 6 - Using Data Factory Pipelines in Microsoft Fabric

- Understand Pipelines
- Use the Copy Data Activity
- Utilize Pipeline Templates
- Execute and Monitor Pipelines

Documentation

- Digital course material included

Participant profiles

- Data Analyst
- Data Engineer
- Data Scientist

Prerequisites

- You must be familiar with the basic concepts of databases and their terminology.

Objectives

- Explore end-to-end analysis with Microsoft Fabric
- Understand the role of data teams in utilizing Microsoft Fabric
- Enable and effectively utilize Microsoft Fabric
- Master the concepts and usage of Lakehouses in Microsoft Fabric
- Transform and leverage data within a Lakehouse
- Prepare and execute Apache Spark code in Microsoft Fabric

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Niveau

Intermédiaire

Classroom Registration Price (CHF)

900

Virtual Classroom Registration Price (CHF)

850

Duration (in Days)

1